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Appln no. 09/676,620 Amendment dated July 20, 2005 Reply to Office Action of May 4, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

(previously presented) A heptanoic acid antimicrobial composition comprising: 1. 0.01 to 5 wt. % heptanoic acid; and greater than 60 wt. % of a freezing point depressant component comprising propylene glycol and glycerin.

2-5. (canceled)

- (previously presented) The antimicrobial composition of claim 1, wherein the 6. freezing point depressant component consists of a mixture of propylene glycol and glycerin.
- (original) The antimicrobial composition of claim 1, wherein the composition has 7. a freezing point of below 32°F.
- 8. (original) The antimicrobial composition of claim 1, wherein the composition has a freezing point of below 20°F.
- 9. (original) The antimicrobial composition of claim 1, wherein the composition has a freezing point of below 10°F.
- 10. (original) The antimicrobial composition of claim 1, wherein the composition has a freezing point of below 0°F.
- (original) The antimicrobial composition of claim 1, wherein the composition has 11. a freezing point of below -10°F.

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(original) The antimicrobial composition of claim 1, wherein the composition has 12. a freezing point of below -20°F.

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- (currently amended) The antimicrobial composition of claim 1, wherein the 14. freezing point depressant component makes up greater than 65 wt. % of the total composition.
- 15. (currently amended) The antimicrobial composition of claim 1, wherein the freezing point depressant component makes up greater than 70 wt. % of the total composition.
- 16. (currently amended) The antimicrobial composition of claim 1, wherein the freezing point depressant component makes up greater than 75 wt. % of the total composition.

17-18. (canceled)

(previously presented) A method for controlling mastitis in milk producing 19. animals, the method comprising:

applying a heptanoic acid antimicrobial composition to a teat of a milk producing animal, wherein the heptanoic acid antimicrobial composition comprises:

0.01 to 5 wt. % heptanoic acid; and

greater than 60 wt. % of a freezing point depressant component comprising propylene glycol and glycerin.

- 20. (previously presented) The method of claim 19, wherein the antimicrobial composition is applied in environmental temperatures of below 40°F or is applied to the teat of the milk producing animal that will be exposed to environmental temperatures of below 40°F within 12 hours of the application.
- 21. (previously presented) The method of claim 20, wherein the environmental temperatures are below 30°F.

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- 22. (previously presented) The method of claim 20, wherein the environmental temperatures are below 20°F.
- 23. (previously presented) The method of claim 20, wherein the environmental temperatures are below 10°F.

24-27. (canceled)

- 28. (previously presented) The method of claim 19, wherein the freezing point depressant component consists of a mixture of propylene glycol and glycerin.
- 29. (original) The method of claim 19, wherein the composition has a freezing point of below 32°F.
- 30. (original) The method of claim 19, wherein the composition has a freezing point of below 20°F.
- 31. (original) The method of claim 19, wherein the composition has a freezing point of below 10°F.
- 32. (original) The method of claim 19, wherein the composition has a freezing point of below 0°F.
- 33. (original) The method of claim 19, wherein the composition has a freezing point of below -10°F.
- 34. (original) The method of claim 19, wherein the composition has a freezing point of below -20°F.

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- 35. (currently amended) The method of claim 19, wherein the freezing point depressant component makes up greater than 65 wt. % of the total composition.
- 36. (currently amended) The method of claim 19, wherein the freezing point depressant component makes up greater than 70 wt. % of the total composition.
- 37. (currently amended) The method of claim 19, wherein the freezing point depressant component makes up greater than 75 wt. % of the total composition.
- 38. (previously presented) The antimicrobial composition of claim 1, wherein the freezing point depressant component consists essentially of a mixture of propylene glycol and glycerin.
- 39. (previously presented) The method of claim 19, wherein the freezing point depressant component consists essentially of a mixture of propylene glycol and glycerin.
 - 40. (canceled)
 - 41. (canceled)
- 42. (previously presented) The antimicrobial composition of claim 1, further comprising rheology modifier, lanolin, surfactant, sequestrant, or mixture thereof.
- 43. (previously presented) The method of claim 19, wherein the composition further comprises rheology modifier, lanolin, surfactant, sequestrant, or mixture thereof.